

What is claimed is:

- 1 1. An electronic device comprising:
2 an external supply voltage terminal; and
3 a circuit to provide an indication of a first supply voltage level to be furnished to the
4 supply voltage terminal in response to receiving power from the terminal.
- 1 2. The electronic device of claim 1, wherein the circuit provides the indication in
2 response to a second supply voltage level being furnished to the terminal, the second supply
3 voltage level being independent from the indication.
- 1 3. The electronic device of claim 2, wherein the second supply voltage level
2 comprises a relatively constant supply voltage level.
- 1 4. The electronic device of claim 1, further comprising:
2 another circuit separate from the first circuit to receive the first voltage supply level
3 from the terminal.
- 1 5. The system of claim 4, wherein said another circuit comprises core circuitry of
2 a central processing unit device.
- 1 6. The system of claim 4, further comprising:
2 a die,
3 wherein said another circuit and the first circuit are fabricated on the die.
- 1 7. The system of claim 1, wherein the circuit furnishes the indication in response
2 to a second supply voltage level being furnished to the terminal and the first voltage supply
3 level is furnished to the terminal in response to validation of the indication.
- 1 8. The system of claim 1, wherein the electronic device comprises a central
2 processing unit device.

1 9. The system of claim 1, wherein the indication represents a voltage
2 identification number.

1 10. The system of claim 1, wherein the circuit does not receive power other than
2 through the terminal.

1 11. A method comprising:
2 providing an indication of a first supply voltage level to be furnished to a supply
3 voltage terminal in response to receiving power from the terminal; and
4 in response to the indication, establishing a voltage of the terminal near the first
5 supply voltage level.

1 12. The method of claim 11, wherein the providing comprises:
2 providing the indication in response to a second supply voltage level being furnished
3 to the terminal, the second supply voltage level being independent from the indication.

1 13. The method of claim 12, wherein the second supply voltage level comprises a
2 relatively constant supply voltage level.

1 14. The method of claim 11, where the indication is associated with a first circuit,
2 the method further comprising:
3 furnishing the first voltage supply level from the terminal to another circuit separate
4 from the first circuit.

1 15. The method of claim 11, wherein the providing comprises providing the
2 indication in response to a second supply voltage level being furnished to the terminal, the
3 method further comprising:
4 furnishing the first voltage supply level to the terminal in response to validation of the
5 indication.

1 16. The method of claim 11, wherein the electronic device comprises a central
2 processing unit device.

1 17. The method of claim 11, wherein the indication represents a voltage
2 identification number.

1 18. A system comprising:
2 an electronic device including an external supply voltage terminal, the electronic
3 device providing an indication of a first supply voltage level to be furnished to the terminal in
4 response to receiving power from the terminal; and
5 a voltage regulator to provide power to the electronic device through the terminal to
6 cause the electronic device to provide the indication and regulate a voltage of the terminal
7 near the first supply voltage level in response to the electronic device providing the
8 indication.

1 19. The system of claim 18, wherein
2 the voltage regulator regulates the voltage of the terminal near a second voltage level
3 independent from the first voltage level to cause the electronic device to provide the
4 indication.

1 20. The system of claim 18, wherein the second supply voltage level comprises a
2 relatively constant supply voltage level.

1 21. The system of claim 18, wherein
2 the voltage regulator regulates the voltage of the terminal near the first supply voltage
3 level in response to validation of the indication.

1 22. The system of claim 18, wherein the electronic device comprises a central
2 processing unit device.

1 23. The system of claim 18, wherein the indication represents a voltage
2 identification number.

1 24. A voltage regulator comprising:
2 voltage regulation circuitry to provide an output voltage in response to a reference
3 voltage to power an electronic device; and
4 a circuit to set the reference voltage to a first level to cause the voltage regulation
5 circuitry to regulate the output voltage near a predetermined output voltage level, and in
6 response to an indication of a supply voltage level furnished by the electronic device, set the
7 reference voltage near a second supply voltage level to cause the voltage regulation circuitry
8 to regulate the output voltage near the supply voltage level indicated by the electronic device.

1 25. The voltage regulator of claim 24, wherein the second supply voltage level
2 comprises a relatively constant supply voltage level.

1 26. The voltage regulator of claim 24, wherein the electronic device furnishes the
2 indication in response to the output voltage being regulated near the predetermined output
3 voltage level.

1 27. The voltage regulator of claim 24, wherein the indication represents a voltage
2 identification number and the electronic device comprises a central processing unit.